

Amendment and Response

Applicant: Winthrop D. Childers et al.

Serial No.: 10/634,024

Filed: August 4, 2003

Docket No.: 10971935-17

Title: INK DELIVERY SYSTEM ADAPTER

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of the claims:

1-38. (Cancelled)

39. (Currently Amended) An emulator for use in a printing system, the printing system having a controller and being configured to receive ~~an a~~ replaceable ink container having replacement ink therein and replacement ink information associated therewith, the replaceable ink container without a memory device attached thereto for storing the replacement ink information ~~missing a memory device coupled thereto~~, the emulator being ~~configured to emulate the missing memory device and~~ comprising:

an electrical signal source separate from and not coupled to the replaceable ink container for exchanging the replacement ink information with the controller; and

a flexible cable operatively coupled to the electrical signal source and configured to separably electrically connect to the controller.

40. (Currently Amended) The emulator of claim 39, wherein the replaceable ink container is a refilled ink container containing a replacement ink different from the initial ink and wherein the electrical signal source includes replacement ink information the printing system interprets as an ink volume associated with the replacement ink.

41. (Currently Amended) The emulator of claim 39, further comprising ~~an a~~ replaceable ink reservoir containing the replacement ink, the replaceable ink reservoir remotely located from the electrical signal source ~~replacement source of signals~~.

42. (Currently Amended) The emulator of claim 39, wherein the electrical signal source is a signal-providing circuit that enables the printing system to operate whenever ~~an a~~ replaceable ink reservoir is coupled to the printing system.

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43. (Currently Amended) A replacement source of signals for a printing system, the printing system having a receptacle for receiving a first ink supply, a controller which exchanges first ink supply information with a memory device coupled to the first ink supply, and an ink supply inlet fluidically connected to a printhead, the replacement source of signals comprising:

an electrical signal source for exchanging replacement ink supply information about a replacement ink supply with the controller, wherein the electrical signal source is separate from and not coupled to the replacement ink supply ~~unlike the first ink supply the replacement ink supply does not have a memory device coupled thereto~~; and

a connector for separably electrically connecting the ~~replacement source of signals~~ electrical signal source to the controller.

44. (Currently Amended) The replacement source of signals of claim 43, wherein the electrical signal source includes replacement ink supply information regarding a volume of the replacement ink supply.

45. (Previously Presented) The replacement source of signals of claim 43, wherein the electrical signal source contains a memory device which has a write portion which is adapted to be updated by the controller to provide an estimate of a volume of the replacement ink supply during usage of the replacement ink supply.

46. (Previously Presented) The replacement source of signals of claim 43, further comprising a flexible cable electrically connecting the connector and the electrical signal source.

47. (Previously Presented) The replacement source of signals of claim 43, further comprising a fluid outlet in fluid communication with the replacement ink supply.

48. (Previously Presented) The replacement source of signals of claim 47, wherein the fluid outlet is adapted to be received by the ink supply inlet.

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49. (Previously Presented) The replacement source of signals of claim 47, wherein the fluid outlet is remotely located from the ink supply inlet.

50. (Previously Presented) The replacement source of signals of claim 49, wherein the fluid outlet is fluidically connected to the ink supply inlet via a flexible fluid conduit.

51. (Previously Presented) The replacement source of signals of claim 43, wherein the electrical signal source is remotely located from the replacement ink supply,

52-72. (Cancelled)